

Product datasheet for **RG205849**

ACADVL (NM_001033859) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	ACADVL (NM_001033859) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	ACADVL
Synonyms:	ACAD6; LCACD; VLCAD
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>RG205849 representing NM_001033859
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGCAGGCGGCTCGGATGGCCGCGAGCTTGGGGCGGCGAGCTGCTGAGGCTCGGGGGCGGAAGCTCGCGGC
 TCACGGCGCTCCTGGGGCAGCCCCGGCCGGCCCTGCCCGGCGGCCCTATGCCGGGGGTGCCGCTCAGGA
 ATCTAAGTCCTTTGCTGTGGGAATGTTCAAAGGCCAGCTCACCACAGATCAGGTGTTCCCATACCGTCC
 GTGCTCAACGAAGAGCAGACACAGTTTCTTAAAGAGCTGGTGGAGCCTGTGTCCCCTTTCTCGAGGAAG
 TGAACGATCCCGCAAGAATGACGCTCTGGAGATGGTGGAGGAGACCACTTGGCAGGGCCTCAAGGAGCT
 GGGGGCCTTTGGTCTGCAAGTGCCAGTGGAGCTGGGTGGTGTGGGCTTTGCAACACCCAGTACGCCGT
 TTGGTGGAGATCGTGGGCATGCATGACCTTGGCGTGGCATTACCTGGGGGCCATCAGAGCATCGTT
 TCAAAGGCATCCTGCTCTTTGGCACAAGGCCAGAAAGAAAAATACCTCCCAAGCTGGCATCTGGGA
 GACTGTGGCCGCTTTCTGTCTAACCGAGCCCTCAAGCGGGTCAGATGCAGCCTCCATCCGAACCTCTGCT
 GTGCCAGCCCTGTGAAAATACTATACCTCAATGGAAGCAAGCTTTGGATCAGTAATGGGGGCTAG
 CAGACATCTTACGGTCTTTGCCAAGACACCAGTTACAGATCCAGCCACAGGAGCCGTGAAGGAGAAGAT
 CACAGCTTTTGGTGGAGAGGGGCTTCGGGGGCATTACCATGGGCCCCCTGAGAAGAAGATGGGCATC
 AAGGCTTCAAACACAGCAGAGGTGTTCTTTGATGGAGTACGGGTGCCATCGGAGAACGTGCTGGGTGAGG
 TTGGGAGTGGCTCAAGTTGCCATGCACATCTCAACAATGGAAGTTTGGCATGGCTGCGGCCCTGGC
 AGGTACCATGAGAGGCATCATTGCTAAGCGGTAGATCATGCCACTAATCGTACCCAGTTTGGGGAGAAA
 ATTCACAACCTTTGGCTGATCCAGGAGAAGCTGGCAGCGGATGGTTATGCTGCAGTATGTAAGTGAAGT
 TGCTTACATGGTGGTGTGCTAATGACAGGAGCCAGGACTTCCAGATAGAGGCCCGCCATCAGCAA
 AATCTTTGGCTCGGAGGCAGCTGGAAGGTGACAGATGAATGCATCCAAATCATGGGGGGTATGGGCTTC
 ATGAAGGAACCTGGAGTAGAGCGTGTGCTCCGAGATCTTCGCATCTTCCGGATCTTTGAGGGGACAATG
 ACATTCTTCGGCTGTTTGGCTCTGCAGGGCTGTATGGACAAAGGAAAGGAGCTCTCTGGGCTTGGCAG
 TGCTCTAAGAATCCCTTTGGGAATGCTGGCCTCTGCTAGGAGAGGCAGGCAACAGCTGAGGCGGCGG
 GCAGGGCTGGGCAGCGGCTGAGTCTCAGCGGACTTGTCCACCCGGAGTTGAGTCGGAGTGGCGAGCTGG
 CAGTACGGGCTCTGGAGCAGTTTGCCACTGTGGTGGAGGCCAAGCTGATAAAACACAAGAAGGGGATTGT
 CAATGAACAGTTTCTGCTGCAGCGGCTGGCAGACGGGGCCATCGACCTCTATGCCATGGTGGTGTCTC
 TCGAGGGCCTCAAGATCCCTGAGTGGAGGCCACCCACGGCCAGCATGAGAAAATGCTCTGTGACACCT
 GGTGTATCGAGGCTGCAGCTCGGATCCGAGAGGCATGGCCGCCCTGCAGTCTGACCCCTGGCAGCAAGA
 GCTCTACCGCAACTTCAAAGCATCTCCAAGGCCTTGGTGGAGCGGGGTGGTGTGGTACCAGCAACCCA
 CTTGGCTTC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence:

>RG205849 representing NM_001033859
 Red=Cloning site Green=Tags(s)

MQAARMAASLGRQLRLGGSSRLTALLGQPRPGPARRPYAGGAAQESKSFVGMFKGQLTTDQVFPYPS
 VLNEEQTFLEKELVEPVSRRFFEEVNDPAKNDALMVEETTWQGLKELGAFGLQVPSLGGVGLCNTQYAR
 LVEIVGMHDLGVTILGAHQSIGFKGILLFGTKAQKEKYLPLKASGETVAAFCLTEPSSGSDAASIRTS
 VPSPCGKYITLNGSKLWISNGGLADIFTVFAKTPVTDPATGAVKEKITAFVVERFGGITHPPEKKMGI
 KASNTAEVFFDGVVRVPSENVLGEVSGFKVAMHILNNGRFGMAAALAGTMRGIIAKAVDHATNRTQFGEK
 IHNFGLIQEKLRMVMLQYVTESMAYMVSANMDQGATDFQIEAISKIFGSEAANKVTDECIQIMGMGF
 MKEPGVERVLRDLRIFRIFEGTNDILRLFVALQGCMDKGKELSGLGSALKNPFNGALLLGEAGQLRRR
 AGLGSGLSLGLVHPELSRSGELAVRALEQFATVVEAKLIKHKKIVNEQFLQLRLADGAIDLAMVVVL
 SRASRSLSEGHPTAQHEKMLCDTWCIEAAARIREGMAALQSDPWQELYRNFKSISKALVERGGVVTSNP
 LGF

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shutting:



ACCN: NM_001033859

ORF Size: 1899 bp

OTI Disclaimer: The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in agreement with the reference, but a complete review of all prevailing variants is recommended prior to use. [More info](#)

OTI Annotation: This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

Components: The ORF clone is ion-exchange column purified and shipped in a 2D barcoded Matrix tube containing 10ug of transfection-ready, dried plasmid DNA (reconstitute with 100 ul of water).

Reconstitution Method:

1. Centrifuge at 5,000xg for 5min.
2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.
3. Close the tube and incubate for 10 minutes at room temperature.
4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.
5. Store the suspended plasmid at -20°C. The DNA is stable for at least one year from date of shipping when stored at -20°C.

RefSeq: [NM_001033859.2](#), [NP_001029031.1](#)

RefSeq Size: 2254 bp

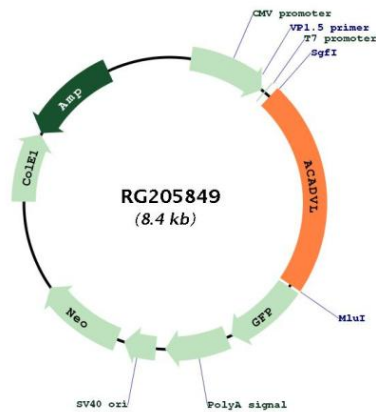
RefSeq ORF: 1902 bp

Locus ID: 37

UniProt ID: [P49748](#)

Cytogenetics:	17p13.1
Protein Families:	Druggable Genome
Protein Pathways:	Fatty acid metabolism, Metabolic pathways
Gene Summary:	The protein encoded by this gene is targeted to the inner mitochondrial membrane where it catalyzes the first step of the mitochondrial fatty acid beta-oxidation pathway. This acyl-Coenzyme A dehydrogenase is specific to long-chain and very-long-chain fatty acids. A deficiency in this gene product reduces myocardial fatty acid beta-oxidation and is associated with cardiomyopathy. Alternative splicing results in multiple transcript variants encoding different isoforms. [provided by RefSeq, Jul 2008]

Product images:



Circular map for RG205849